Index of Claims

Application/Control No.

Applicant(s)/Patent under Reexamination

10/046,634

DEN BRINKER ET AL.

Examiner

Art Unit

V. Paul Harper

2654

| √  | Rejected |
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| 11 | Allowed  |

(Through numeral) Cancelled Restricted

Non-Elected N Interference

**Appeal** 0 Objected

| Claim Date |          |          |  |          |  | Claim    |  |          |  |          | Date |                |          |                         |   |              | Cla            | aim      | Date          |          |       |          |               |            |          |          |          |   |          |                 |          |           |               |
|------------|----------|----------|--|----------|--|----------|--|----------|--|----------|------|----------------|----------|-------------------------|---|--------------|----------------|----------|---------------|----------|-------|----------|---------------|------------|----------|----------|----------|---|----------|-----------------|----------|-----------|---------------|
|            |          | Γ        |  |          |  |          |  |          |  |          |      | Ī              | _        |                         |   |              | 1              |          | 1             |          |       |          |               | <u> </u>   | İ        |          |          |   |          |                 |          |           |               |
| Final      | Original | 8/2/05   |  |          |  |          |  | Ιİ       |  |          |      | Final          | Original |                         |   | ŀ            |                |          |               | - 1      |       |          | Final         | Original   |          |          |          |   |          |                 |          |           |               |
| 遣          | Ę        | 8/2      |  |          |  | l        |  |          |  |          |      | 谎              | 흕.       |                         |   | -            |                |          |               | -        |       |          | Œ             | ř          | 1        |          |          |   |          |                 |          |           |               |
|            | 0        |          |  |          |  |          |  |          |  |          |      |                |          |                         |   |              |                |          |               |          |       |          |               |            |          |          |          |   |          |                 |          |           |               |
|            | 1        | 1        |  |          | П  |          |  | П        |  |          |      |                | 51       |                         |   |              |                | П        |               |          |       | Γ        |               | 101        |          |          |          |   |          |                 |          |           |               |
|            | 2        | 1        |  |          | П  |          |  | П        |  | 7        |      |                | 52       |                         | Т   | Т            | Т              |          |               |          |       |          |               | 102        |          |          |          |   |          |                 |          |           | П             |
|            | 3        | 0        |  |          | Π  |          |  |          |  | _        |      |                | 53       |                         |   |              |                |          |               |          |       | Γ        |               | 103        |          | П        |          |   |          |                 |          | $\Box$    | П             |
|            | 4        | 0        |  |          | Π  |          |  |          | $\neg$   | <b>-</b> |      |                | 54       |                         |   | T            | 1              |          |               |          |       | Γ        |               | 104        |          | П        |          |   |          |                 |          |           | П             |
|            | 5        | 0        |  | i —      |  |          |  |          |  | _        |      |                | 55       | ヿ                       |   | T            | 1              |          |               |          | 7     | Γ        |               | 105        |          | П        |          |   |          |                 |          |           | П             |
|            | 6        | 0        |  |          |  |          |  |          |  |          |      |                | 56       | $\neg$                  |   |              |                |          |               |          |       | Γ        |               | 106        |          |          |          |   |          |                 |          | П         | П             |
|            | 7        | 0        |  | i        |  |          | Π  |          |  |          | Ī    | T i            | 57       | $\exists$               |   |              |                |          |               | T        |       | Γ        |               | 107        |          |          |          | _ |          |                 |          |           | П             |
|            | 8        | 1        |  |          |  | Г        |  |          | İ  | <b>-</b> |      |                | 58       | $\neg$                  |   |              |                |          |               |          |       | r        |               | 108        |          |          |          |   |          |                 |          | П         | П             |
|            | 9        | V        | ┢  | $\vdash$ |  | Г        |  |          |  |          | -    |                | 59       | 寸                       |   |              |                |          | $\Box$        |          |       | -        |               | 109        | Γ        |          |          |   |          |                 |          |           |               |
|            | 10       | $\vdash$ | <del>                                     </del> |          |  | П        |  | m        |  | 7        | -    |                | 60       | T                       | 1   | 1            |                |          |               | $\neg$   | 7     | -        |               | 110        | $\vdash$ |          |          |   |          | _               |          |           |               |
|            | 11       |          | 1  |          | <b> </b>   |          | _  | $\Box$   |  |          | -    |                | 61       | 寸                       |   | $\top$       |                | П        | $\neg$        | $\neg$   |       | -        |               | 111        | Г        |          |          |   |          |                 |          |           | П             |
|            | 12       | 1        | H  | Ι-       | Т  | <b></b>  | П  | Н        | $\neg$   | ١        | ۲    | $\neg \dagger$ | 62       | 十                       | 十   | $\top$       | T              | $\Box$   | $\dashv$      | 十        | 7     | +        |               | 112        | Г        |          |          | _ | -        | П               | $\neg$   | $\neg$    | М             |
|            | 13       | $\vdash$ | $\vdash$   |          | <del>                                     </del> | $\vdash$ | <del>                                     </del> | $\vdash$ |  | 1        | H    | $\dashv$       | 63       | $\dashv$                | $\dashv$  | +            | 1              | H        | $\dashv$      | $\top$   | 1     | H        | $\neg$        | 113        |          | H        |          |   |          | П               |          | $\dashv$  | $\vdash$      |
|            | 14       | $\vdash$ |  |          |  |          | Г  | H        |  | $\dashv$ | ŀ    |                | 64       | $\dashv$                | $\top$  | $\top$       | T              | Н        | $\dashv$      | 十        | 1     | ŀ        |               | 114        | _        |          | _        | - |          |                 |          | -         | $\vdash$      |
|            | 15       |          | Т  |          |  |          | П  | H        | $\dashv$   | $\dashv$ | ŀ    | $\dashv$       | 65       | $\dashv$                | $\dashv$  | +            | T              | $\vdash$ | _             |          | 7:::  | -        |               | 115        |          | Н        |          |   |          |                 | $\dashv$ | $\dashv$  | П             |
|            | 16       | $\vdash$ | П  | Н        |  |          | Т  | H        | $\dashv$   | $\dashv$ | ŀ    | -              | 66       | 十                       | _   | $\top$       | †              |          | $\dashv$      | $\dashv$ | 1     | ۲        |               | 116        | <b></b>  |          |          |   |          | $\vdash$        | $\dashv$ | $\dashv$  | П             |
| -          | 17       | _        | Т  | $\vdash$ |  |          | $\vdash$   | H        | $\dashv$   | $\dashv$ |      | $\dashv$       | 67       | $\dashv$                | +   | +            | +-             | $\vdash$ | $\dashv$      |          | 7     | 1        |               | 117        | $\vdash$ |          |          |   |          | <b></b>         | +        | $\dashv$  | $\sqcap$      |
|            | 18       | $\vdash$ | Н  | $\vdash$ | $\vdash$   |          |  | Н        | $\dashv$   | $\dashv$ | -    |                | 68       | $\dashv$                | +   | $\pm$        | +              | Н        | _             | $\dashv$ | ┪     | H        |               | 118        |          |          | $\neg$   | _ | _        | $\vdash$        | $\neg$   | $\dashv$  | П             |
|            | 19       | <u> </u> | $\vdash$   | -        |  |          |  | H        | $\dashv$   |          | -    | -              | 69       | $\dashv$                | $\dashv$  | +            | +              | H        | _             | +        | -     | H        |               | 119        |          | $\vdash$ | $\dashv$ |   | H        |                 | -        |           | $\vdash$      |
|            | 20       | -        | ⊢  | -        | $\vdash$   | -        |  | $\vdash$ | $\dashv$   | $\dashv$ | H    | $\rightarrow$  | 70       | $\dashv$                | +   | +            | +              | $\vdash$ | $\dashv$      | +        | -     | H        |               | 120        |          | $\dashv$ | $\dashv$ |   |          | <u> </u>        | $\dashv$ | $\dashv$  | Н             |
|            | 21       | ⊢        | -  |          | ├  |          |  | $\vdash$ |  |          | -    |                | 71       | $\dashv$                | +   | +            | +              | $\vdash$ | -             | +        | -     | H        |               | 121        | -        | $\dashv$ | $\dashv$ | - |          |                 | $\dashv$ | $\dashv$  | $\vdash$      |
|            | 22       |          | -  |          |  | -        |  | $\vdash$ |  | $\dashv$ | -    | -+             | 72       | $\dashv$                | $\dashv$  | +            | +              | $\vdash$ | $\dashv$      | +-       | -     | H        | -             | 122        |          | $\dashv$ |          | - | $\vdash$ |                 | $\dashv$ | $\dashv$  | $\vdash$      |
|            | 23       | H        |  |          | $\vdash$   |          | -  | $\vdash$ |  |          | -    |                | 73       | -+                      |   | ╫            | +-             | $\vdash$ | $\dashv$      | +        | -     | H        |               | 123        | $\vdash$ |          |          | _ | _        | $\vdash$        | $\dashv$ | $\dashv$  | $\vdash$      |
|            | 24       |          |  |          |  |          |  | $\vdash$ | $\dashv$   |          | -    | $\rightarrow$  | 74       | +                       | +   | +-           | +              | $\vdash$ |               | +        | -     | $\vdash$ | -1            | 123        | $\vdash$ | $\vdash$ | -        |   |          | _               |          | $\dashv$  | $\overline{}$ |
| <u> </u>   | 25       | ⊢        |  | -        |  | $\vdash$ | $\vdash$   | $\dashv$ | -+   |          | -    |                | 75       | -+                      | +-  | ╫            | +              | $\dashv$ |               |          | -     | -        |               | 125        | -        | -        |          | _ |          |                 | $\dashv$ | -         |               |
|            | 26       | ⊢        | H  |          | H  |          | -  | $\vdash$ |  |          | -    |                |          | +                       |   |              | +              |          |               | -        | -     | ⊩        |               |            |          |          | $\dashv$ | _ |          |                 | $\dashv$ | -         | $\vdash$      |
|            | 27       |          | H  | -        | -  | -        | -  | -        | -+   |          | ii   |                | 76<br>77 | +                       | +   | +            | +              |          |               |          | -     | -        |               | 126<br>127 | <u> </u> |          |          |   |          |                 | -        | -         | $\Box$        |
|            |          | -        | $\vdash$   | -        |  | Н        | -  | $\vdash$ | -  |          | ŀ    | -+             | 78       | +                       | +   | +            |                | $\vdash$ |               | +        | -     | ŀ        |               | 127        | _        |          |          |   |          |                 | $\dashv$ | $\dashv$  | $\vdash$      |
|            | 28       | H        | Н  | _        |  | Н        | Н  | $\vdash$ | $\dashv$   |          | ŀ    | $\rightarrow$  | 78       | +                       | +   | +            | +-             | $\vdash$ | $\rightarrow$ | +        | - ::: | ŀ        | $\rightarrow$ | 128        | <u> </u> | -        | $\dashv$ |   |          | -               | $\dashv$ | $\dashv$  | Н             |
|            | 29       |          | H  | _        |  |          | H  | $\vdash$ | $\dashv$   |          | ii - | $\rightarrow$  | 79       | +                       | _   | $\dashv$     | -              | $\vdash$ | -             | +        | -     | H        | _             | 129        |          |          |          |   |          |                 |          | $\dashv$  |               |
|            | 30       |          | Н  |          |  | Н        |  | H        |  |          | ii - |                | 80       | -                       | _   |              | ┼—             |          | -             | +        | -     | H        |               | 130        | H        |          |          |   |          |                 | _        |           | $\dashv$      |
|            | 31       |          | Н  |          | _  | _        | _  |          | $\dashv$   |          | ŀ    |                | 81       | _                       | _   | _            | -              | $\dashv$ |               | +        | - ::: | L        |               | 131        |          |          | _        | _ |          |                 |          | $\dashv$  | $\dashv$      |
|            | 32       |          | Н  |          |  | Н        | Ш  | $\vdash$ | -+   |          | ₽    |                | 82       | +                       | 4   | +            | ₩              | $\dashv$ | $\dashv$      | +        | 4     | ŀ        | $\dashv$      | 132        | ,        |          |          |   |          |                 |          |           | $\dashv$      |
|            | 33       | _        | $\vdash$   |          | $\vdash$   | ш        |  | $\vdash$ | $\dashv$   | -        | L    |                | 83       | $\dashv$                | 1   | +            | $\vdash$       | $\vdash$ | $\dashv$      |          | -     | F        |               | 133        | <u> </u> |          |          |   |          | $\vdash \vdash$ | _        | $\dashv$  | Н             |
|            | 34       | _        |  | _        | _  | $\vdash$ | Щ  | _        | $\dashv$   |          | :: L |                | 84       | $\dashv$                | -   | -            | ┼—             | $\vdash$ | $\perp$       | +        | -     | ŀ        |               | 134        | Ш        | _        | _        |   | Ш        | Ш               | _        |           |               |
|            | 35       |          | Щ  |          | <u> </u>   |          | Ш  |          |  | 4        | L    |                | 85       | $\dashv$                | $\perp$   | _            | $\vdash$       | $\sqcup$ | 4             | 4        | 4     | L        |               | 135        | Щ        | $\sqcup$ |          |   |          | $\Box$          |          | _         | $\dashv$      |
|            | 36       |          | Щ  |          | <u> </u>   | $\sqcup$ |  | $\sqcup$ | _  | _        | L    |                | 86       | $\dashv$                | $\bot$  | $\bot$       | <u> </u>       | Щ        | 4             | $\bot$   | 4     | L        |               | 136        | Щ        | Щ        |          | _ | Ш        |                 | _        | _         | $\square$     |
|            | 37       | <u> </u> |  |          |  | Ш        | Щ  | $\sqcup$ | _  | _        | L    |                | 87       | _                       | _   | 4            | <del> </del> _ |          | $\perp$       |          | 4     | L        |               | 137        | Ш        | Ш        | ļ        |   |          |                 |          | _         | Ш             |
| <u>.</u>   | 38       | $\vdash$ | Щ  |          | Ш  | Щ        | Ш  | $\sqcup$ | _  | _        | L    |                | 88       | $\dashv$                | $\bot$  | +            | $\vdash$       | $\sqcup$ | _             |          | 4     | L        |               | 138        |          |          | _        |   |          | $\square$       | _        | _         | ᅴ             |
|            | 39       | _        | Ш  |          | Ш  | Ш        | L  |          |  | _        | L    |                | 89       | _                       | $\perp$   | 4            | 1_             |          | $\dashv$      | 4        | 4     | L        |               | 139        | Ш        |          |          |   |          | $\Box$          | _        | _         |               |
|            | 40       |          |  |          | Ш  |          | Ш  | Ц        |  | _        | L    |                | 90       | $\perp$                 | $\perp$   | $\perp$      | $\perp$        |          | _             |          | 4     | L        |               | 140        |          |          |          |   | _        |                 |          |           | ↲             |
|            | 41       | <u> </u> | Ш  |          | Щ  |          | Ш  | $\sqcup$ | $\perp$  | 4        | L    |                | 91       | _                       |   | 4            | $\perp$        | Ш        | $\perp$       | $\perp$  | 4     | L        |               | 141        | Ш        |          |          |   | $\Box$   | $\Box$          | $\perp$  |           | ᅵ             |
|            | 42       | L_,      | Ш  |          | لِـــا   |          |  | $\sqcup$ |  | 4        | L    |                | 92       | $\dashv$                | 4   | _            | $\perp$        |          |               |          | 4     | L        | ļ             | 142        |          | _        |          | _ |          |                 |          |           | Щ             |
|            | 43       | Ш        | Щ  |          | Ш  |          | Ш  |          | $\perp$  | _        | #L   |                | 93       | $\perp$                 | $\perp$   | $\perp$      | $\perp$        |          | $\perp$       |          | 4     | L        |               | 143        | $\sqcup$ | $\perp$  |          |   |          |                 |          | $\dashv$  |               |
|            | 44       | Ш        | Ш  |          |  |          |  |          | $\perp$  | 4        | ::L  |                | 94       | $\perp$                 | _ _   |              | Щ              |          | $\perp$       | 丄        | 4     | L        |               | 144        |          |          |          |   |          |                 |          | $\sqcup$  | $\Box$        |
|            | 45       |          |  |          |  |          |  | $\perp$  |  | _        | L    |                | 95       | $\perp$                 | $\perp$   | 1            | <u>L</u>       |          | $\perp$       |          |       | L        |               | 145        |          |          |          | l |          |                 | $\perp$  |           |               |
| I          | 46       |          |  |          |  |          |  |          |  |          | L    |                | 96       |                         |   |              |                |          |               |          |       | L        | I             | 146        |          |          | _]       | ] | ]        | I               |          | I         |               |
|            | 47       |          |  |          |  |          |  |          | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ | ╝        | Ľ    |                | 97       | $oldsymbol{\mathbb{I}}$ | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Gamma}}}$ |              | $\Box$         |          | $oxed{J}$     |          |       | Ĺ        |               | 147        |          |          | $\Box$   |   |          | [               |          |           |               |
|            | 48       |          |  |          |  | $\Box$   |  |          |  |          |      |                | 98       | $\Box$                  |   | $oxed{oxed}$ |                |          |               |          | ]     | Γ        |               | 148        |          |          |          |   |          |                 |          | $\Box$    |               |
|            | 49       |          |  |          |  |          |  |          |  |          | Γ    |                | 99       |                         |   |              |                |          | $\Box$        |          | ]     | Γ        | 1             | 149        |          | $\neg$   |          |   | T        | T               | T        | $\exists$ | $\neg$        |
|            | 50       |          |  |          |  |          |  |          |  | 7        | Г    |                | 100      |                         |   | T            | П              | ヿ        | $\neg$        | 1        | 7:::: |          |               | 150        |          | $\neg$   |          |   | $\neg$   | $\neg \neg$     | $\neg$   | $\neg$    | $\neg$        |